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## 096519 - Resilient Tile Flooring

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## **SECTION 09 6519 - RESILIENT TILE FLOORING**

### 1.1 SUMMARY

- A. The University prefers to use regional materials within a 500 mile radius of the campus.
- B. Section Includes:
  - 1. Rubber floor tile, rubber stair treads, rubber landing material and rubber nosing.
  - 2. Vinyl composition floor tile.
  - 3. Quartz Tile.
  - 4. Concrete Floor Prep.

### 1.2 SUBMITTALS

- A. LEED Submittals:
  - 1. Product Data for Credit EQ 4.1: For adhesives, sealants and chemical-bonding compounds, including printed statement of VOC content.
  - 2. Product Data for Credit MR 4.1 and 4.2-Recycled content 30% Pre-Consumer Recycled Content, no DEHP no phthalates.

### 1.3 QUALITY ASSURANCE

- A. Fire-Test-Response Characteristics: As determined by testing identical products according to ASTM E 648 or NFPA 253 by a qualified testing agency.
  - 1. Critical Radiant Flux Classification: Class I, not less than 0.45 W/sq. cm.

### 1.4 EXTRA MATERIALS

- A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
  - 1. Floor Tile, base, treads and landing materials: Furnish 1 box for every 50 boxes or fraction thereof, of each type, color, and pattern of floor tile installed.

### 1.5 RUBBER FLOOR TILE AND BASE

- A. Manufacturers:
  - 1. Burke Mercer Flooring Products, Division of Burke Industries Inc.
  - 2. Johnsonite.
  - 3. Mondo Rubber International.
  - 4. Nora Rubber Flooring, Freudenberg Building Systems, Inc.
  - 5. Roppe Corporation, USA.

- B. Tile Standard: ASTM F 1344, Class I-A, homogeneous rubber tile, solid color or Class I-B, homogeneous rubber tile, through mottled.
- C. Hardness: Not less than 85 as required by ASTM F 1344, measured using Shore, Type A durometer per ASTM D 2240.
- D. Wearing Surface: Smooth.
- E. Thickness: 0.125 inch (3.2 mm).
- F. Size: 12 by 12 inches (305 by 305 mm) or 24 by 24 inches (610 by 610 mm).

#### 1.6 VINYL COMPOSITION FLOOR TILE

- A. Manufacturers:
  - 1. Armstrong World Industries, Inc.
  - 2. Mannington Mills, Inc.
  - 3. Tarkett, Inc.
- B. Tile Standard: ASTM F 1066, Class 1, solid-color tile or Class 2, through-pattern tile.
- C. Wearing Surface: Smooth.
- D. Thickness: 0.125 inch (3.2 mm).
- E. Size: 12 by 12 inches (305 by 305 mm).

#### 1.7 QUARTZ VINYL TILE

- A. Basis-of-Design Product: Quartz Tile by Altro or owner considered alternate.

#### 1.8 INSTALLATION MATERIALS

- A. Adhesives: Water-resistant type recommended by manufacturer to suit floor tile and substrate conditions indicated.
  - 1. Use adhesives that comply with the following limits for VOC content when calculated according to 40 CFR 59, Subpart D (EPA Method 24):
    - a. VCT and Asphalt Tile Adhesives: Not more than 50 g/L.
    - b. Rubber Floor Adhesives: Not more than 60 g/L.

#### 1.9 PREPARATION

- A. Prepare substrates according to manufacturer's written instructions to ensure adhesion of resilient products.

- B. Concrete Substrates: Prepare according to ASTM F 710.
  - 1. Verify that substrates are dry and free of curing compounds, sealers, and hardeners.
  - 2. Remove substrate coatings and other substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone, using mechanical methods recommended by manufacturer. Do not use solvents.
  - 3. Alkalinity and Adhesion Testing: Perform tests recommended by manufacturer. Proceed with installation only after substrates pass testing.
  - 4. Moisture Testing: Perform tests recommended by manufacturer and as follows. Proceed with installation only after substrates pass testing.
    - a. Perform anhydrous calcium chloride test, ASTM F 1869. Proceed with installation only after substrates have maximum moisture-vapor-emission rate of 3 lb of water/1000 sq. ft. (1.36 kg of water/92.9 sq. m) in 24 hours.
    - b. Perform relative humidity test using in situ probes, ASTM F 2170. Proceed with installation only after substrates have a maximum 75% relative humidity level measurement.
- C. Concrete Slab Moisture Mitigation: Hydroseal Primer or owner considered alternate for VCT or Quartz Tile installation.

#### 1.10 CLEANING AND PROTECTION

- A. Comply with manufacturer's written instructions for cleaning and protection of floor tile.
- B. Perform the following operations immediately after completing floor tile installation:
  - 1. Remove adhesive and other blemishes from exposed surfaces.
  - 2. Sweep and vacuum surfaces thoroughly.
  - 3. Damp-mop surfaces to remove marks and soil.
- C. Protect floor tile products from mars, marks, indentations, and other damage from construction operations and placement of equipment and fixtures during remainder of construction period.
- D. Floor Polish: Remove soil, visible adhesive, and surface blemishes from floor tile surfaces before applying liquid floor polish.
  - 1. Apply in accordance with the University's approved finish/wax instructions.
- E. Cover floor tile until Substantial Completion.

END OF SECTION 09 6519